233 with the movement toward a cash economy, this has changed.
178
[465] The shepherd receives 8 to 10 piasters for each head of sheep which he tends. The Bedouins who have taken up farming can spare none of their family for sheep-herding chores. If he
[497] can afford it, during the dry season, a Bedouin may ship his sheep to the Nile Valley by train at 12 piasters per head. But the government will not accept sheep for shipment unless they are accompanied by a shepherd. The role of shepherd has become a very specialized one in the al-Qasr area. Few
[554] of the al-Qasr Bedouins are shepherds, and the role is reserved for the poorer men without land.

241 Plowing in the garden area is done by hand. Usually,
407 the plow is pulled by a donkey but occasionally, if one can
492 afford it, a camel or a horse will be used. A man and his
[462] sons handle all of the agricultural chores with the exception
178 of the winnowing process which the women do. Traditionally,
241 barley was threshed by camels plodding on it. The Bedouins say
492 that this is the best way because the soft feet of the camel do not crush the kernel. Now, however, very few men can afford
[407] a camel. Threshing is done with a heavy wooden sled pulled by
241 a donkey or a horse. Tractors, when available, are used for
407 agricultural plowing in the southern barley zone. This zone,
434 during the year 1963, also became important for raising water-
433 melons (batiikh), and this product figures to be an excellent cash crop for al-Qasr. Melons and barley can bring high profits

241 when planted in large quantities. The southern zone of al-Qasr
•407 is best suited for these crops, and the tractor is necessary
434 for a successful crop.
433

407 Tractors are rented through the cooperative society.
474 Local cooperative officers are responsible for seeing that all
[427] members share in the use of the tractor. But, in fact, officers and their closer relatives monopolize the tractors. The gov-
[654] ernment has allotted to the al-Qasr cooperative five tractors. They feel that it would jeopardize the whole program of economic reform if they were to dictate the way in which the tractors
407 are to be used. Consequently, the tractor, like the rations
619 of foodstuffs, has become a pawn in tribal power plays. In
474 one case, not in al-Qasr, a tractor-driver who was a member of the 'Ali Abyad tribe insisted that members of the 'Ali Ahmar tribe pay him a 50 piaster "tip" to have their fields plowed. Because of situations such as these, most Bedouins prefer that cooperative membership coincide with local group membership. It is better, they say, if the 'Aishaibat of al-Qasr have their own cooperative because they know how to handle problems among themselves. The government, during this transitional period, seems to agree.

407 One reason that tractors are monopolized by a small group is that there are not enough of the machines to handle the plowing. Of the five tractors in al-Qasr, seldom were more than two working simultaneously. Often, this was a result of

407 the lack of spare parts. Three of the tractors were Russian-built, and two were Egyptian made. The Bedouins say that the Russian tractors are the better.

407 241 654 [132] In 1964, the Western Desert received its heaviest rainfall since 1947. To take advantage of this, local government officials of the reclamation project requested an additional fifty tractors for plowing on the coastal zone. They received only six additional tractors. In that year, the thirty-nine tractors used in the entire Western Desert were able to plow 15,240 acres of land. During this period of economic change, 731 233 [654] a bad barley crop causes a fodder shortage for the animals, and seldom is the aid program able to compensate for this. [166] Consequently, there is a need to ship sheep to the Nile Valley, or to seek permission to take them to the pastures of Cyrenaica. Both situations create tremendous difficulties for both the Bedouins and the government. A third alternative for the [432] [435] Bedouin is to buy barley on the black-market. In doing this, he must pay six times the normal cost of grain, and risk reprisals.

177 659 Prior to 1960, change in al-Qasr might be characterized as a steady and endogenous process of sedentarization. It had been taking place for about a century and a half. Exogenous change, social and economic, may be identified with the desire of the government to reclaim land in al-Qasr for agricultural use, and to integrate the Bedouin into the national economy.